TotalSeq™-B0820 anti-human CD130 (gp130) Antibody

Catalog# / Size	362013 / 10 µg
Clone	2E1B02
Regulatory Status	RUO
Other Names	GP130, GP-130, IL6ST, IL-6Rβ, Oncostatin M Receptor, Oncostatin-M receptor subunit alpha
Isotype	Mouse IgG2a, κ
Barcode Sequence	CACGAGAATTTCAGT
Description	CD130, also known as gp130 (glycoprotein 130), IL6ST (IL-6-receptor-associated signal transducer), or common β chain, is a member of the hematopoietic cytokine receptor family. CD130 is a common subunit associated with the receptors for several cytokines, such as IL-6, IL-11, Oncostatin M (OSM), CNTF (ciliary neurotrophic factor), CT-1, Neuropoietin (NP), and IL-27. CD130 participates in the JAK-STAT signaling pathway and is expressed on T cells, activated B cells, monocytes, plasma cells, and endothelial or epithelial cells.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	GP130 (23-619aa) recombinant protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-B oligomer under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. **Do not freeze**.
Application	PG - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-B antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions. To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions. Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.
Additional Product Notes	TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq. The barcode flanking sequences are GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTNNNNNNNNN (PCR handle), and NNNNNNNNGCTTTAAGGCCGGTCCTAGC*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease

	degradation. View more applications data for this product in our Scientific Poster Library.
RRID	AB_2876684 (BioLegend Cat. No. 362013)

Antigen Details

Structure	130 kD type I transmembrane glycoprotein.
Distribution	T cells, activated B cells, monocytes, plasma cells, endothelial cells and epithelial cells.
Function	Common β subunit of IL-6 receptor family, plays a role in signal transduction.
Ligand/Receptor	IL-6, IL-11, OSM, CNTF, CT-1, NP, IL-27.
Cell Type	B cells, Endothelial cells, Epithelial cells, Monocytes, Plasma cells, T cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Arzt E, *et al.* 2001. *J. Clin. Invest.* 108:1729. 2. Bravo J, *et al.* 2000. *EMBO J.* 19:2399. 3. Wang XJ, *et al.* 1998. *Blood* 91:3308. 4. Hibi. M, *et al.* 1990. *Cell.* 63:1149. 5. Schlossman S, *et al.* 1995. ed. Leukocyte Typing V. New York. Oxford University Press.
Gene ID	3572

Related Protocols

TotalSeq™-B or -C with 10x Feature Barcoding Technology

Other Formats

Purified anti-human CD130 (gp130), PE anti-human CD130 (gp130), APC anti-human CD130 (gp130), PE/Cyanine7 anti-human CD130 (gp130), PE/Dazzle™ 594 anti-human CD130 (gp130), TotalSeq™-C0820 anti-human CD130 (gp130), TotalSeq™-B0820 anti-human CD130 (gp130)

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